TRACKING LANDOWNERS

From Hello to Last Goodbye

Troy Kuphal, Manager Scott SWCD

INTRO

- We all have tracking systems
- Needs change, so must systems
 - ▶ 200 250 requests for assistance
 - ▶ 50 60 projects
 - Dozens of funding sources
 - 100's forms (often repeat information)
 - ► 170+ status reviews
 - Growing volume and complexity of reporting
- Data rich but information poor
- Reached critical mass
 - Adding more columns, rows and tabs to a spreadsheet no longer practical



OVERVIEW

SWIMS

Soil & <u>W</u>ater Information <u>M</u>anagement System



Microsoft SharePoint

- Browser-based (intranet) application
- Sits on county server (regular backup)
- Utilizes county user network
 - Logging in tells it who you are
 - Viewing, editing, deleting controlled by permissions
- Unlimited customization
 - No programming language
 - Adaptable to changing data needs
- Multiple modules ("Lists")

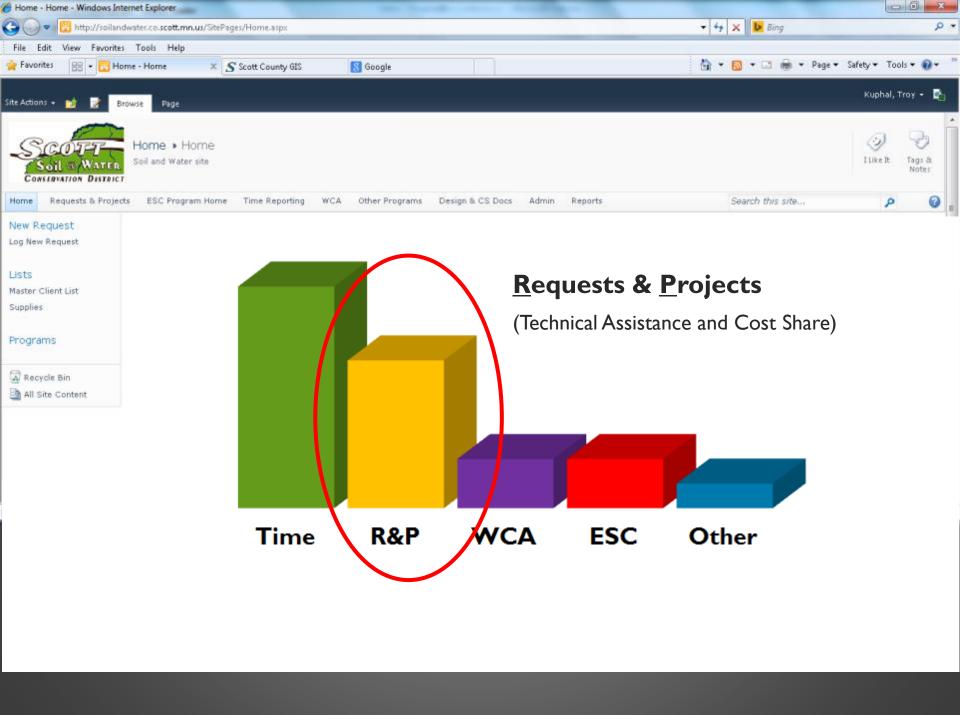


GOALS

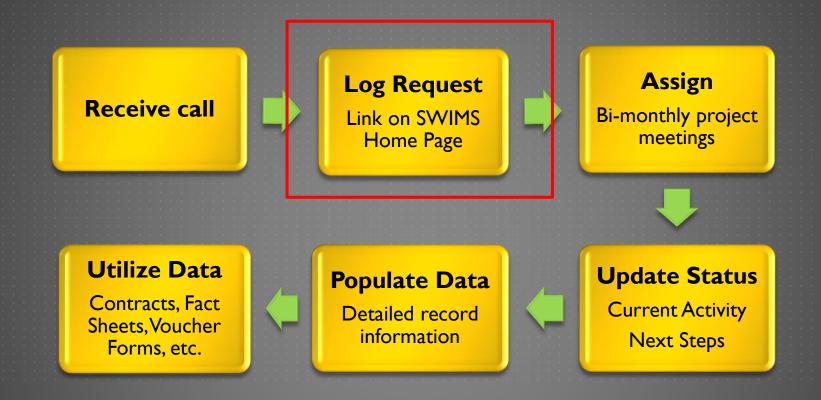
More than tracking landowners



- Reduce paperwork burden
 - More conservation on the ground
- Make time reporting less hated
 - Faster and easier
 - Minimize repetitive entry
- Increase accountability
 - Ensure data accuracy
 - Improve ability to glean, analyze, report
- Improve overall management
 - Workload distribution
 - Monitor progress

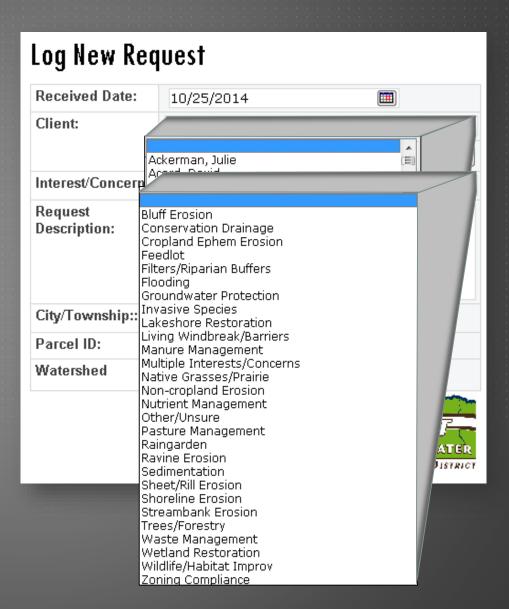


OVERVIEW — TRACKING PROCESS



LOGGING SERVICE REQUEST

- InfoPath data entry form
 - Accessed from SWIMS Home Page
- Client Name
 - ► Master Client lookup list
 - Eliminates repeat data entry
- Reason for calling
 - ► Interest/Concern lookup list
 - Narrative
- City/Township
 - General location
- Parcel ID
 - ► GIS lookup/locating
- Watershed
 - Billing



R & P LIST ATTRIBUTES

- **Activity Status**
- Address

 Approval Date

 Assigned To

 Certification Date
- City
- Client Name
 Closed Reason
 Contract End Date
 Contract No
 Contract Start Date
 Contract Term
 CS Source Grants
 Federal CS
- Home Phone

General Status

- Interest or Concern Landowner Share
- LGU Local CS Log Date Minor Watershed
- Mobile Phone
 Next Step
 Next Step Date
 NPEAP Role
 Operator Name
 - P After
 - P Before
 - P Unit Cost
- Parcel ID
 Practice

- Practice Qty
 Practice Units
 Project Description
 Project Display Name
- Project ID
- Project Total CS
- Project Overall Cost
- Qtr Qtr Sect
- **Qtr Sect**
- Range
- 🕠 Record ID
- Record Notes
- Request Display Name Resource Protected Runoff After
 - **Runoff Before**

- Section
- Sed After
- Sed Before
- Sed Unit Cost
- Soil Loss After
- Soil Loss Before
- State
 - State CS
 - Status Review Years
 - SWCD CS
 - TA Funding Eligibility
 - Tecnical Rep
 - Township
 - Tract #
- Watershed
- Zip

- Manual (6)
- 0

Auto-pop (8)

R & P LIST ATTRIBUTES (AII)

Activity Status Address

Approval Date

Archive & Delete

Assigned To

Assigned To Name

Billing Entity Text

BrdCommDateText

Certification Date

Certification Date Text

City Client

Client Address 2

Client Name

ClientCSZ

Closed Reason

ClosedByDate

Contract End Date

Contract No.

Contract Start Date

Contract Term

Created By

CS Source Parent Grant

CS Source Grants

Current Landowner

Fed CS Perc Actual

Fed Incentives

Federal CS

Federal Total

General Status

Harvestable

Home Phone

Hours

Interest or Concern

Interest or Concern Name PracticeUnits

Landowner CS Perc Actual

Landowner Share

LGU

Local CS Log Date

Minor Watershed

Mobile

Modified By

Next Step

Next Step Date

NPEAP Role

Operator Name

P After P Before

P Reduced

P Unit Cost

P Unit Cost SWCD

P Unit Cost Total

Parcel ID

PerpetualEasement

Practice

Practice Code

Practice Name

Practice Qty

Practice Units

Program Year

Program Years Delim

Programs

Programs Comma Delim Project Description

Project Display Name

Project ID

Project Total Construction

Project Total CS

Project Total CS and Incents

Project Total Incentives

Project Total Overall Cost

ProjectStartRealText

ProjectStatus

Promote to Project

Otr Otr Sect

Otr Sect

Range Record ID

Record Notes

Re-enrolled

Repair

Request Display Name

Resource Protected

Runoff After

Runoff Before

Runoff Vol Reduced

Section Sed After

Sed Before

Sed Reduced

Sed Unit Cost

Sed Unit Cost SWCD

Sed Unit Cost Total

Soil Loss After

Soil Loss Before

Soil Loss Reduced

SplitIncentivePmnt

State State CS

State CS Perc Actual

State CS Percent Max

State Incentives

State Total

Status Changes

Status Review Years

SWCD Contract No.

SWCD CS

SWCD CS Perc Actual

SWCD CS Percent Max

SWCD Incentives

SWCD Total

TA Funding Comma Delim

TA Funding Eligibility

Tecnical Rep

Township Tract #

Tract Current

Watershed

WMO/WD Contract No.

WMO/WD CS Perc Actual

WMO/WD CS Percent Max

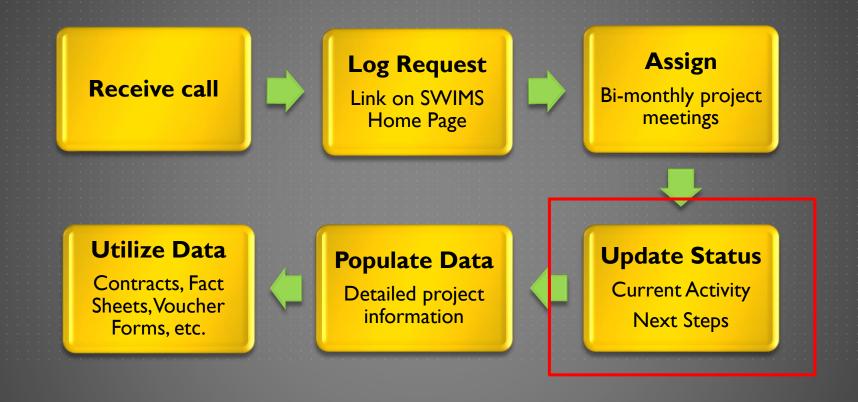
WMO/WD Incentives

WMO/WD Total

Zip

126

OVERVIEW — TRACKING PROCESS

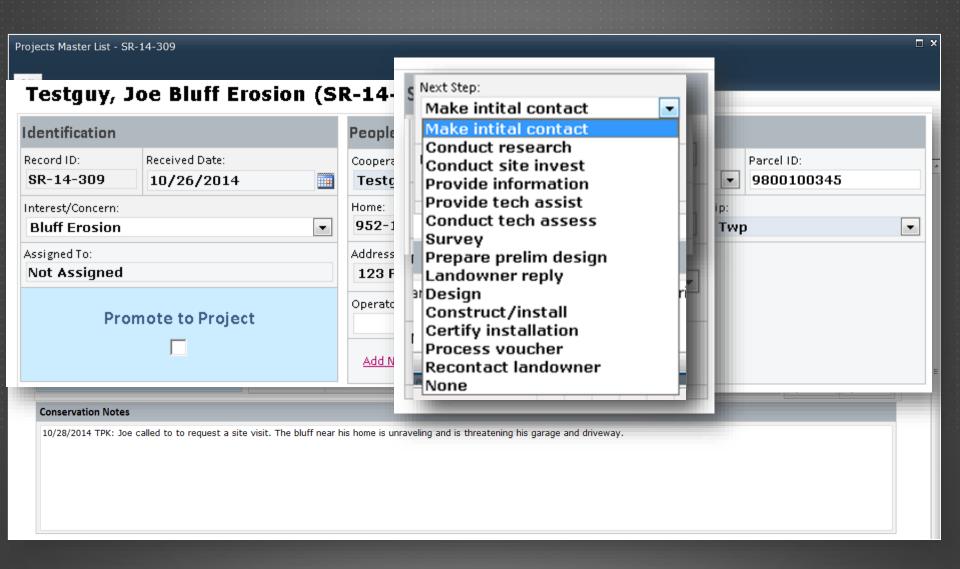


VIEWING & EDITING STATUS

Site Actions • Browse Items	ols List					k	uphal, Troy 🕶 🏂
Home Requests & Proje			General Status	Activity Status	Next Step	Next Step Date) ę î
REQUESTS	ts/Projects ▶ Projec	cts Mas	Active	Initial contact made	Provide information	11/20/2014	e It Tags & Notes
REQUESTS My Assigned	1		Active	Request logged	Make intital contact	11/15/2014	
Quick Project Status	ram Home Time Repo	-	On Hold	Site invest completed	None		P 2
Update Form		lient arker, Bra	Active	Initial contact made	Conduct site invest	11/15/2014	Step Date
My Status Reviews		arlage, Da	Active	Research completed	Provide information	12/1/2014	5/2014
Not Assigned		randel, Jar	Active	Site invest completed	Landowner reply	11/15/2014	
All Requests (No Project)		randt, Will reeggemai	Active	Request logged	Make intital contact	11/15/2014	5/2014 /2014
, All Projects Project Assignments		reeggemai	Active	Request logged	Make intital contact	11/15/2014	5/2014
		uttreeks, N orn, Marge	Active	Request logged	Make intital contact	11/15/2014	5/2014 5/2014
AUTOFILL FORMS		riemeyer,	Active	Request logged	Make intital contact		5/2014
CS Forms		PA Placeho rack, Kim	Active	Request logged	Make intital contact	11/15/2014	5/2014
O&M Plans	SR-13-057 KI	ehr, Richa	Active	Design finished	Construct/install	8/15/2015	/2015
CS Letters		inger, Rick SUEUR S	Active	Voucher processed	None		
Status Review Forms					🗣 Local intranet Prote	ected Mode: Off	▼ € 110% ▼

Active records assigned to "me"

TRACKING STATUS — User Interface



R & P LIST ATTRIBUTES

- Activity Status
- Address
 Approval Date
- Assigned To Certification Date
- City
- Client Name
 Closed Reason
 Contract End Date
 Contract No
 Contract Start Date
 Contract Term
 CS Source Grants
- General Status

Federal CS

O Home Phone

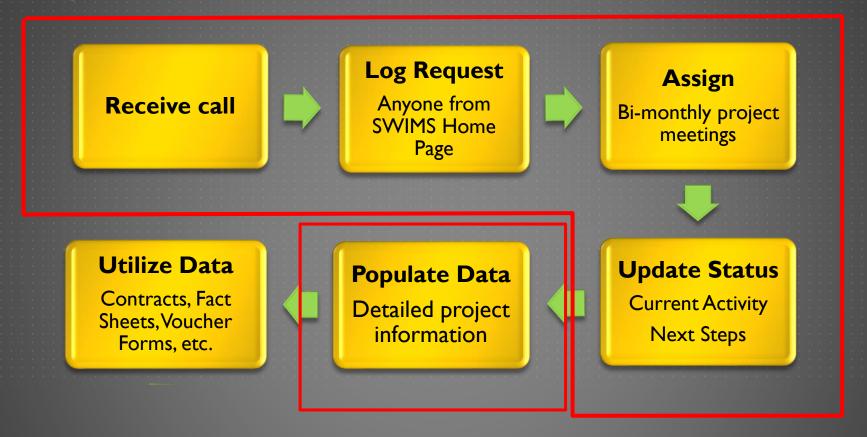
- Interest or Concern Landowner Share
- LGULocal CSLog DateMinor Watershed
- Mobile Phone
- Next Step
- Next Step DateNPEAP RoleOperator NameP AfterP Before
 - P Unit Cost
- Parcel ID
 Practice

- Practice Qty
 Practice Units
- Project Description
 Project Display Name
- Project ID
- Project Total CS
- Project Overall Cost
- Qtr Qtr Sect
- **Qtr Sect**
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 - Runoff Before

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 - State CS
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 - SWCD CS
 - TA Funding Eligibility
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 - **Township**
 - Tract #
- Watershed
- Zip

- Manual (6)
- Auto-pop (8)

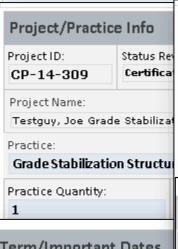
OVERVIEW - TRACKING PROCESS



TRACKING PROJECTS

Projects Master List - SR-14-309

□ :



1						
Term/Important Dates						
Contract Term:						
10						
Contract Start Date:	Cor					
05/15/2015	10					
WPC/SWCD Approval:	Cer					
11/18/2014						

Money		
AGENCY	INCENTIVES	COSTSHAR
AGENCI	INCENTIVES	Amount
Federal	\$0	\$0.00
State	\$0	\$4,000.00
WMO/WD	\$0	\$4,000.00

Cost Share Sources/Grants (Choose

- ▼ BWSR SCS Base CY14

 SWMO 2013 EPA (NEW) CY14

 CY14
- SWMO 2013 CWP Credit River Specific
- SWMO LGF Nutrient Mgmt CY14
- ▼ SWMO LGF General Practices CY14
- SWMO 2012 CWF Runoff Reduct Nativ
- SWCD 2014 CWF Lower MN Rural BMF
- SWCD 2014 CWF Lower MN Streambar
- FEDERAL EQIP CYXX
- PLSLWS LGF General Practices CY14
- _____ SWMO 2013 EPA (NEW) CY15
- BWSR SCS Base CV15

Resource Protected

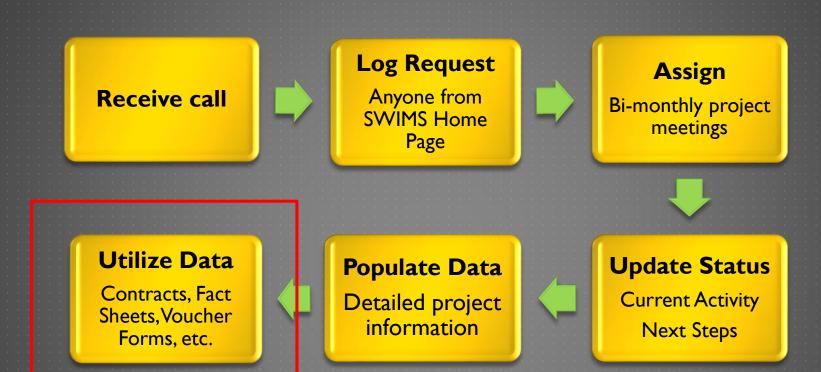
Minnesota River

Project Description

A grade stabilization (or control) structure is a practice used to prevent formation or advancement of gullies or head cuts where the elevation difference between two points in a natural or artificial channel is severe within a relatively short distance. In addition to protecting water quality by eliminating a significant source of sediment, grade control structures may also help reduce public safety and infrastructure hazards resulting from severe washouts.

Environmer	ntal Ber	Unit Costs					
<u>Parameter</u>	neter Units Before After Saved				SWCD	Overall	
Soil Loss	Tors/Yr	55.0	1.0	54.0			
Sediment	Tors/Yr	10.0	1.0	9.0	\$11	\$44	\$111
Phosphorus	Lbs/Yr	6.0	0.5	5.5	\$18	\$73	\$182
Runoff	Ac Ft/Yr	0.0	0.0	0.0			

OVERVIEW - PROCESS



UTILIZING DATA

Goal of a well-designed database: enter data once...use again and again

- Auto-populated forms
 - Cost share contracts, Fact Sheets, Vouchers, other
- ▶ Time reporting
 - Grant name and billing information



CONSERVATION PROJECT FINANCIAL ASSISTANCE CONTRACT

AUTO-

GENERAL INFO	RMATION								Project ID	CP-14-309
Financial Assistance Provider:	Contract No.	Contract Type:		Other Cost	Share Sources:	:	Amendments (if any)		Canceled (If appli	cable):
Scott SWCD		Individual	Group	Fed	State	Local		III		
APPLICANT										
Name:		Address:				City/S	State		Zlp:	
Joe <u>Testguy</u>		123 First Av	enue N	1VV		Ne	w Prague , MN		5607	'1
PROJECT LOCA	ATION									
City/Township Name:		Township:	Range		Section	1	1/4 1/4	Minor W	/atershed #:	
Blakeley Twp		113N	26W		18		NE1/4 ; NE1/4			
PROJECT TYPE	& COST ES	TIMATE								
Conservation Practice Name:							Quantity:		Units:	
Grade Stabilization S	Structure						1.0		Each	
Eligible components (list NRCS Pr	ractice Codes): Oth	er recognized technical	l practice(s)):			Check whichever applies:		Total Cost	Estimate:
							Engineered Practice		\$10,0	00.00
INSTALLATION	COST SHARE	AMOUN	TS B	y S OL	JRCE					
Scott SWCD: \$0.0	0 F	ederal: \$0.0	00		Land	downe	r: \$1,000.00			
Watershed: \$4,0	00.00	State: \$4,0	00.00		Othe	er:				

AMOUNTS AUTHORIZED UNDER THIS CONTRACT

Project incentives shall not exceed: \$1,000.00

Project installation cost-share shall not exceed \$0.00 or 0.0 percent of total eligible costs, whichever is less.

TERMS AND CONDITIONS

I (we), the undersigned, hereby request financial assistance to help defray the cost of installing the conservation project listed above. It is understood that:

1. The Applicant and, if different, landowner are responsible for proper operation and maintenance of the practice and any related components applied under this contract, and to ensure the conservation purpose and objectives are met for the

Proposed Project Fact Sheet



Joe Testguy Grade Stabilization Structure

Cooperator & Location

Applicant(s): Joe Testguy

123 First Avenue NW New Prague Addres:

Township: 113N Range: 26W Sect: 18 City/Town Blakeley Twp

Location: Watershed

Project Details

Practice

Grade Stabilization Structure

Quantity/Units: 1.0Each Projected Installation: Spring 2015

Resource Protected

Minnesota River

Project Description

A grade stabilization (or control) structure is a practice used to prevent formation or advancement of gullies or head cuts where the elevation difference between two points in a natural or artificial channel is severe within a relatively short distance. In addition to protecting water quality by eliminating a significant source of sediment, grade control structures may also help reduce public safety. and infrastructure hazards resulting from severe washouts.

Environmental Benefits

Parameter	Before	After	Saved
Soil Erasion (tans/yr)	55.0	1.0	54.0
Sediment Load (tons/yr)	10.0	1.0	9.0
Phosphorus Load (lbs/yr)	6.0	0.5	5.5
Runoff Reduction (acreft)	0.0	0.0	0.0

Aerial View of Project Site



Photo of Current Project Site



Cost Analysis

F	sts	Project Co
	\$9,000.00	Construction
	\$1,000.00	Materials
	510,000.00	Total:
0		

Funding by	Funding by Source							
Federal	\$0.00							
State	54,000.00							
SWCD	\$1,000.00							
SWMO	\$4,000.00							
Cooperator	\$1,000.00							

Approvals/Type			
Approval Date	11/18/2014		
Target Project			
EPA-319 Funds	la,		
Credit River Grant			
Clean Water Fund	F		

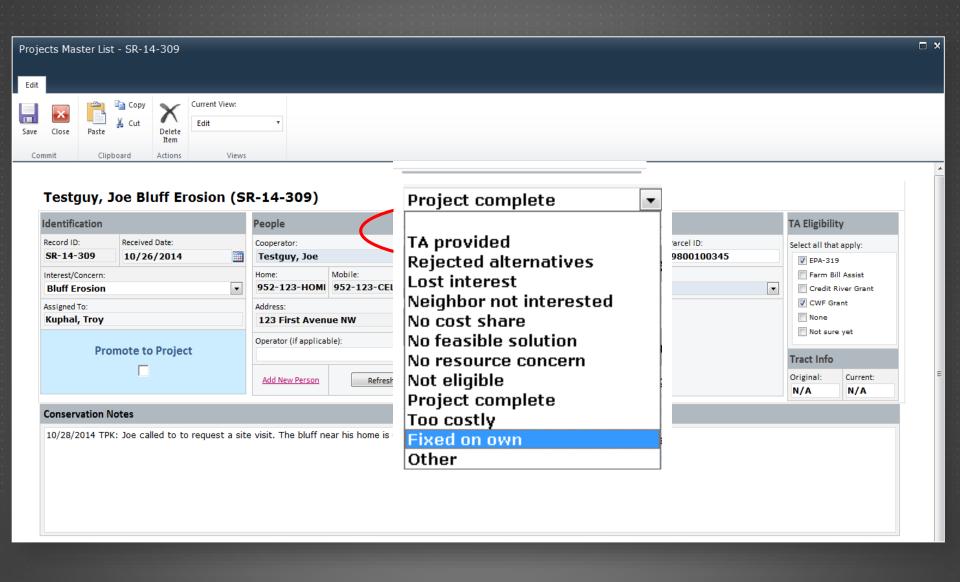
Unit Costs*							
	Sediment (\$/ton)	Phos (\$/Pound)					
SWCD	511	518					
SWMO	\$44	\$73					
All Sources	\$111	\$182					
Overteen of cos	t charp contra	rt .					

SCS VOUCHER AND PRACTICE CERTIFICATION SUMMARY FORM

Α	PAYEE INFORMATION	Check if name or address ch	nange	B PRACTICE INFORMATION					
Name				ID Numb	er				
	Testguy								
Addre 123	First Avenue NW			BWSR P	rogram	D 0	C	nt FWQMG	Other
	State, Zip			Tons So	il Saved		Frant Comp Gra		orus Reduced
_	Prague MN 5607	1			4.0		9.0		5.5
~	COST INFORMATION	Basis of Request			Туре	of Re	quest	Total Const	truction Cost
С	COST INFORMATION	✓ Installation	llation		Partial		✓ Final		\$9,000.00
R/I		ITEM	QUA	NTITY	UNI	TS	UNIT PRICE	CC	OST
R	▼ Common excavation	1	1,0	0.00	Cu Yds	· •	\$6.00		\$6,000.00
R	▼ Outlet structure		-	1.0	Each	_	\$1,000.00		\$1,000.00
R	▼ Seeding and mulch		-	1.0	Job	_	\$1,000.00		\$1,000.00
R: Re	eceipt/Invoiced Item 1: In	-kind Contribution			•		Total:		\$8,000.00
	I certify that this is an accurate and true summation of the actual costs and quantities of material, labor, and equipment used on the above project. In cases where the receipts included items not used on the project, I have corrected them accordingly. (Payee Signature) (Date)								
D	PAYMENT INFORMA	TION							
	AL COST OF PRACTICE:	\$8,000.00 [c above]	(a) T	otal of	Previous	Payme	nts:	\$0.00	
BW	SR BASE GRANT COST SHARE PAYMENT:	\$4,000.00 [from box e]	(b) (Current (Cost-Sha	re Requ	est:		.
Otl	her Funding Sources	(Please identify source)	cos	T-SHARE	PROGRA	AM			
	Federal:	\$0.00	(c) T	otal Cos	st Approv	/ed:		\$8,000.00	

OVERVIEW - PROCESS





PARTING THOUGHTS

- Solutions range from simple to complex
- Depends on needs and desired outputs
- The only wrong solution is one that doesn't do what you need

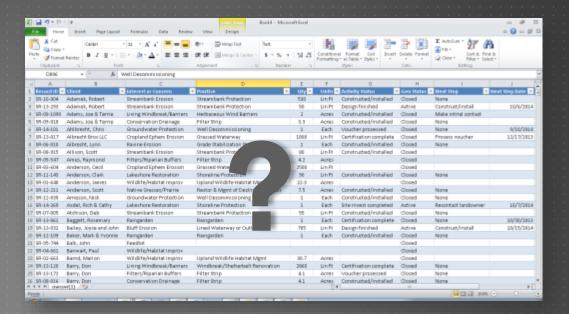
"If you put in little effort and expect big returns, you will be deeply disappointed. You don't get apples by planting lemon seeds."

Catherine Pulsifer



PARTING THOUGHTS







PARTING THOUGHTS

- Start with a business analysis
 - Current processes
 - ► What's working/what's not
- Identify specific goals/outcomes
 - Simplify processes?
 - ► Time savings?
 - Increase accountability?
- Research technology options
- ▶ Understand limitations
 - ► User habits/Technical aptitude
 - **\$\$\$**



THINGS TO CONSIDER

- Consider ongoing support and maintenance needs
 - ► Compatibility with existing information systems (e.g. county?)
 - Internal or external?
- Consider your team throughout the process
 - Involve them from the start buy in is critical!
 - Mimic familiar terms and work flows
 - ► Allow them to test and provide feedback along the way
- Start simple
 - Grow into the system



